CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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COUNTRY	East Germany	REPORT	
SUBJECT	Notes on VEB Elektro-Kohle (Siemens-Plania), Berlin-Lichtenberg	DATE DISTR.	26 November 1954
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DATE OF INFO.		REQUIREMENT	
PLACE ACQUIRED		REFERENCES	

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This is UNEVALUATED

THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE. THE APPRAISAL OF CONTENT IS TENTATIVE. (FOR KEY SEE REVERSE)

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1. Renaming of Siemens-Plania, Berlin-Lichtenberg

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On 10 August 1954, the plant was renamed VEB Elektro-Kohle.

2. Construction Work

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No new construction work took place during August.

3. Arrivals of Raw Materials

Raw material	Approx. Quantity	Origin
Coke	200 tons	Poland
"	900 "	U.S.S.R.
"	300 "	East Germany
Soot	70 bags	Rumania
Anthracite	1000 tons	U.S.S.R.
Silicon carbide	200 "	Piesteritz (or Bitterfeld)
Silicon	70 "	East Germany
Tar	80 tankers	Leuna
Tar	20 "	Erkner

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STATE	X	ARMY	X	NAVY	X	AIR	X	FBI		AEC		ORR Ev	x	OSI Ev	x

(NOTE: Washington distribution indicated by "X"; Field distribution by "#".)

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Raw material	Approx. Quantity	Origin
Pure graphite	100 tons	U.S.S.R.
Copper	90 "	East Germany
Pitch	300 "	East Germany
Thorium and cerium compounds	40 "	U.S.S.R.

4. Production Deliveries

Product	Approx. Quantity	Destination
Stamping compound (Stampfmasse)	900 tons	China
" "	400 "	Czechoslovakia
Electrodes	250 "	Bitterfeld
Amorphous electrodes	800 "	Czechoslovakia and Poland
Graphite electrodes	200	China

5. Research and Development

a. The principal technological assignment is the determination of the influence of various mixtures on loss of pressure in trace pressing (Strangpressen).

In pressing, part of the applied pressure is lost and this loss is to be determined by a new experimental arrangement. See sketch.

Drm - pressure meter
S - piston
M - matter
D - nozzle
← - direction of pressure.

First results: the efficiency (η form = η shape) could not be accurately determined in the case of old type presses; there the following formulae could not be used for the computation:

$$\text{Work } A = V.hf. \ln \frac{Fo}{F1} \cdot \frac{1}{\eta_{form}}$$

$$\text{Pressure force } P = Fo \cdot hf. \ln \frac{Fo}{F1} \cdot \frac{1}{\eta_{form}}$$

It is also impossible to determine exactly the passage from the entrance point of the material to be pressed to the nozzle opening.

b. Recent experiments have shown that the plasticity of certain mixtures is not connected by a constant numerical factor or a curve with certain mixtures of the coke category. This means that either every mixture can be used for the experiments or it means the end of the experiments.

c. The importance of the surface for the composition of good mixtures becomes more and more apparent.

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d. As a result of continual arguments among the technical heads of the plant, it has been impossible to develop technological processes, although ample material is available.

Engineer Selka (fnu) (head of the technological laboratory) is the man best informed on this subject.

e. A large scale experiment is planned in the burning plant (Brennerei) with the object of reducing the burning times of the electrodes to 60% of the present time without an increase of waste.

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